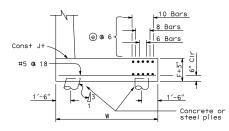


| TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA | | | | | | | |
|---|---------|---------|---------|---------|---------|--|--|
| Design H | 4' | 6′ | 8' | 10' | 12' | | |
| W | 4'-0" | 5′-0" | 6'-6" | 8'-0" | 9'-6" | | |
| F Spread Footing | 1'-4" | 1'-4" | 1′-6" | 1'-6" | 1'-10" | | |
| Batter | None | None | None | 100:3 | 100:6 | | |
| a) Bars, # @ in | #5 @ 16 | #5 @ 16 | #5 @ 16 | #5 @ 12 | #5 @ 10 | | |
| Short @ Bars, # @ in | None | None | #5 @ 16 | #5 @ 12 | #5 @ 10 | | |
| (b) Bars, # @ in | #5 @ 16 | #5 @ 16 | #5 @ 8 | #5 @ 6 | #5 @ 5 | | |
| Total @ Bars | 8 - #6 | 8 - #6 | 10 - #6 | 8 - #6 | 6 - #6 | | |
| Toe Pressure ksf | | | | | | | |
| Loading Case I | 1.7 | 2.2 | 2.5 | 3.0 | 3.6 | | |
| Loading Case II | 1.6 | 2.1 | 2.7 | 3.4 | 4.1 | | |
| Loading Case III | 1.7 | 2.3 | 2.9 | 3.9 | 4.4 | | |
| Loading Case Ⅲ | 2.0 | 3.2 | 4.2 | 5.3 | 6.5 | | |

| DIST | COUNTY | ROUTE | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL | | |
|--|-----------------------------|---|-----------------------------|----------------------|-------|--|--|
| May 1, 2006 PLANS APPROVAL DATE PLANS APPROVAL DATE PLANS APPROVAL DATE PLANS APPROVAL DATE | | | | | | | |
| agents | shall not be inpleteness of | rnta or its offi responsible for electronic copie the Caltrans wel | cers or \\ " \" | CIVIL F CAL IFORM | ** | | |



Reinforcement detailed is to be placed in addition to that shown for spread footings.

● For Design H=4' use W=5'-0" All others from table.

90 KIP PILE FOOTING SECTION

Top of footing - Optional footing line - LOL

Use Reinf for H=14'-0"16'-0"18'-0"

Top of wall Toe of slope

LAYOUT EXAMPLE

For joints required, see

NOTES:

Design Conditions:

Design H may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

Design Data:

 $f_C = 1,450 \text{ psi } f_C' = 3,600 \text{ psi } f_S = 24,000 \text{ psi } n = 10 \text{ earth} = 120 \text{ lb/ft}^3$ Case I- Wall design for equivalent fluid pressure = 27 and 36 psf/foot. Case II, III, IV - Wall design is based on Rankine's formula with $\emptyset = 33^{\circ}42'$.

Max PILE SPACING FOR 90 KIP PILES

| Design | Front Row | | | |
|--------|------------|----------|--|--|
| Н | 1:3 Batter | Vertical | | |
| 4' | 18'-0" | 18'-0" | | |
| 6′ | 12'-0" | 18'-0" | | |
| 8′ | 9'-0" | 18'-0" | | |
| 10' | 6'-0" | 12'-0" | | |
| 12' | 4'-0" | 8'-0" | | |

For actual spacing, see Wall Layout. Pile layout does not apply to Case Ⅳ conditions.

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION RETAINING WALL TYPE 5

NO SCALE

SPREAD FOOTING SECTION

NOTE:

16"_

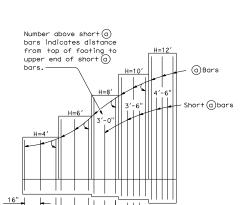
N

S

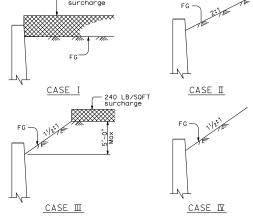
N

At a and Short a bars: H < 6', no splices are allowed within 1'-8" above the top of footing.

H > 6', no splices are allowed within H/4 above the top of footing.



ELEVATION



Level + 240 LB/SQFT

surcharge

DETAIL OF DESIGN LOADING CASES

Case I Level + 240 psf surcharge

Case ${\mathbb I}$ 2:1 Unlimited slope

Case II 1/2:1 Limited slope (5'-0" Max height)

+ 240 psf surcharge

Case II 11/2:1 Unlimited slope

B3-7